

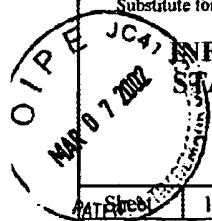
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PTO/SB/8A (08-00)

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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

AMT Sheet 1 1 of 3

Complete if Known	
Application Number	09/626,096
Filing Date	July 26, 2000
First Named Inventor	UMEK
Group Art Unit	1645
Examiner Name	Not Yet Assigned
Attorney Docket Number	A-68271-2/RFT/RMS/RMK

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Office ³	Number ⁴	Kind Code ² (if known)		
NCL	19	WO	97/31256	A3	Cornell Research Found.	08/1997
	20	WO	97/41425	A1	Pence Inc.	11/1997
	21	WO	98/51823	A1	Mosaic Technologies	11/1998

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1 Unique citation designation number. **2** See attached Kinds of U.S. Patent Documents. **3** Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). **4** For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. **5** Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. **6** An applicant is to place a check mark here if English translation is attached.

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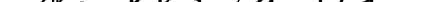
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Substitute for form 1449A/PTO		<i>Complete if Known</i>	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <i>(use as many sheets as necessary)</i>		Application Number	09/626,096
		Filing Date	July 26, 2000
		First Named Inventor	UMEK
		Group Art Unit	1645
		Examiner Name	Not Yet Assigned
		Attorney Docket Number	A-68271-2/RFT/RMS/RMK
Sheet 1 of 3			

U.S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Signature		Date Considered	12/08/2004
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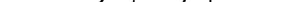
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Application Number		09/626,096	
Filing Date		July 26, 2000	
First Named Inventor		UMEK	
Group Art Unit		1645	
Examiner Name		Not Yet Assigned	
Sheet	3	of	3
		Attorney Docket Number A-68271-2/RFT/RMS/RMK	

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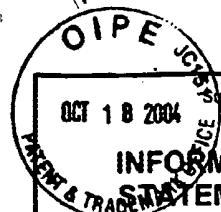
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OCT 18 2004 Substitute for form 1449A/PTO (Modified)				Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT <small>(use as many sheets as necessary)</small>				Application Number	09/626,098
Sheet	1	of	10	Filing Date	July 26, 2000
				First Named Inventor	UMEK, Robert M.
				Art Unit	1637
				Examiner Name	Calamita, Heather
				Attorney Docket Number	
				A-68271-2/RMS/RMK/SPL (463037-00204)	

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Column, Lines, Where Relevant Passages or Relevant Figures Appear
Hac	A1	4,656,127	04-07-1987	Mundy	
	A2	4,683,195	07-28-1987	Mullis et al.	
	A3	4,683,202	07-28-1987	Mullis	
	A4	4,713,347	12-15-1987	Mitchell et al.	
	A5	4,851,331	07-25-1989	Vary et al.	
	A6	4,876,187	10-14-1989	Duck et al.	
	A7	4,988,617	01-29-1991	Landegren et al.	
	A8	5,011,769	04-30-1991	Duck et al.	
	A9	5,015,569	05-14-1991	Pontius	
	A10	5,130,238	07-14-1992	Malek et al.	
	A11	5,156,810	10-20-1992	Ribi	
	A12	5,171,853	12-15-1992	Thorp et al.	
	A13	5,175,270	12-29-1992	Nilsen et al.	
	A14	5,200,051	04-06-1993	Cozzette et al.	
	A15	5,238,808	08-24-1993	Bard et al.	
	A16	5,244,560	09-14-1993	Kuhr	
	A17	5,308,754	05-03-1994	Kankare et al.	
	A18	5,403,711	04-04-1995	Walder et al.	
	A19	5,409,818	04-25-1995	Davey et al.	
	A20	5,455,166	10-03-1995	Walker	
	A21	5,474,796	12-12-1995	Brennan	
	A22	5,487,973	01-30-1996	Nilsen et al.	
	A23	5,492,806	02-20-1996	Drmanac et al.	
	A24	5,494,810	02-27-1996	Barany et al.	
	A25	5,525,464	06-11-1996	Drmanac et al.	
	A26	5,534,424	07-09-1996	Uhlen et al.	
	A27	5,545,531	08-13-1996	Rava et al.	
	A28	5,547,839	08-20-1996	Dower et al.	
	A29	5,565,322	10-15-1996	Heller	
	A30	5,616,464	04-01-1997	Albagli et al.	
	A31	5,660,988	08-26-1997	Duck et al.	
	A32	5,670,322	09-23-1997	Eggers et al.	

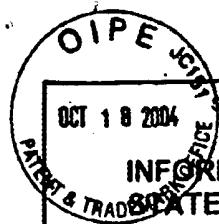
Examiner Signature	<i>Heather Calamita</i>	Date Considered	<i>12/08/2004</i>
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OCT 18 2004		Substitute for form 1449A/PTO (Modified)		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT				Application Number	09/626,096
(use as many sheets as necessary)				Filing Date	July 26, 2000
Sheet	2	of	10	First Named Inventor	UMEK, Robert M.
				Art Unit	1637
				Examiner Name	Calamita, Heather
				Attorney Docket Number	
				A-68271-2/RMS/RMK/SPL (463037-00204)	

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number Number-Kind Code ² (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
AAC	A33	5,695,940	12-09-1997	Drmanac et al.	
	A34	5,705,346	01-06-1998	Okamoto et al.	
	A35	5,710,028	01-20-1998	Eyal et al.	
	A36	5,727,548	03-17-1998	Hill et al.	
	A37	5,747,255	05-05-1998	Brenner	
	A38	5,767,259	06-16-1998	Albagli et al.	
	A39	5,780,224	07-14-1998	Collins et al.	
	A40	5,837,832	11-17-1998	Chee et al.	
	A41	5,846,708	12-08-1998	Hollis et al.	
	A42	5,846,717	12-08-1998	Brow et al.	
	A43	5,861,242	01-19-1999	Chee et al.	
	A44	5,871,918	02-16-1999	Thorp et al.	
	A45	5,874,046	02-23-1999	Megerle	
	A46	5,888,819	03-30-1999	Goelet et al.	
	A47	5,891,630	04-06-1999	Eggers et al.	
	A48	5,922,617	07-13-1999	Wang et al.	
	A49	5,925,520	07-20-1999	Tully et al.	
	A50	5,942,388	08-24-1999	Willner et al.	
	A51	5,942,397	08-24-1999	Tarlov et al.	
	A52	5,945,286	03-31-1998	Krihak et al.	
	A53	5,968,745	10-19-1999	Thorp et al.	
	A54	5,972,692	10-26-1999	Hashimoto et al.	
	A55	5,976,802	11-02-1999	Ansorge et al.	
	A56	6,066,448	05-23-2000	Wohlstadter et al.	
	A57	6,090,545	07-18-2000	Wohlstadter et al.	
	A58	6,361,671 B1	03-26-2002	Mathies et al.	

FOREIGN PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² Number ⁴ Kind Code ⁵ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
JAC	B1	EP 0 142 301 A2	05-22-1985	Serono Diagnostics Limited	
JAC	B2	EP 0 317 074 B1	05-24-1989	Orion-Yhtymä Oy	

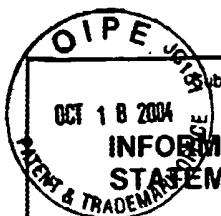
Examiner Signature *[Signature]* Date Considered 12/08/2004

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(Modified)OCT 18 2004
INFORMATION DISCLOSURE
STATEMENT BY APPLICANT

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Sheet	3	of	10	Attorney Docket Number	A-68271-2/RMS/RMK/SPL (463037-00204)
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FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document Country Code ² Number Kind Code ³ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁴
ML	B3	EP 0 371 437 B1	06-06-1990	Orion-Yhtymäe Oy		
	B4	EP 0 478 319 A1	04-01-1992	Tokyo Shibaura Electric Co.		
	B5	EP 0 668 502 A2	08-23-1995	Yissum Research Development		
	B6	WO 92/15712 A1	09-17-1992	Molecular Tool Inc.		
	B7	WO 93/10267 A1	05-27-1993	Igen, Inc.		
	B8	WO 93/25898 A1	12-23-1993	Medisense, Inc.		
	B9	WO 95/00666 A1	01-05-1995	The Research Foundation of State University of New York		
	B10	WO 95/00667 A1	01-05-1995	The Research Foundation of State University of New York		
	B11	WO 95/00669 A1	01-01-1995	Pharmacia Biotech AB		
	B12	WO 95/05480 A2/A3	02-23-1995	BioMedical Corp.		
	B13	WO 95/34816 A1	12-21-1995	Pharmacia Biosensor AB		
	B14	WO 96/06946 A1	03-07-1996	Igen, Inc.		
	B15	WO 97/13075 A1	09-05-1997	Danfoss A/S		
	B16	WO 97/27473 A1	07-31-1997	Northwestern University		
	B17	WO 98/04740 A1	02-05-1998	Northwestern University		
	B18	WO 98/12539 A1	03-26-1998	Meso Scale Technologies, LLC		
	B19	WO 98/49344 A1	11-05-1998	Lockheed Martin Energy Research Corp.		
	B20	WO 99/13109 A1	03-18-1999	Seq Ltd.		
	B21	WO 99/15893 A1	04-01-1999	Aventis Res. & Technologies GmbH & Co.		

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ⁴
ML	C1	ALEXANDER, V., "Design and Synthesis of Macroyclic Ligands and Their Complexes of Lanthanides and Actinides," <i>Chem. Rev.</i> 95(2):273-342 (Mar. - Apr. 1995).	
HCC	C2	ALSFASSER, R., et al., "Novel Building Blocks for Biomimetic Assemblies. Synthesis, Characterization, and Spectroscopic and Electrochemical Properties of New Bidendate Ligands Derived from Lysine and Cystine and Their Complexes with Bis(2,2'-bipyridine)ruthenium(II)," <i>Inorg. Chem.</i> 35(3):628-636 (Jan. 1996).	

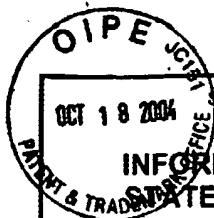
Examiner Signature	<i>Heather Calcutt</i>	Date Considered	<i>11/08/2004</i>
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

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Sheet	4	of	10	Attorney Docket Number	A-68271-2/RMS/RMK/SPL (463037-00204)
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NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No.*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T#
Hel	C3	ARKIN, M., et al., "Rates of DNA-Mediated Electron Transfer Between Metallointercalators," <i>Science</i> 273(5274):475-480 (Jul. 1996).	
	C4	BAINS, W., et al., "A Novel Method for Nucleic Acid Sequence Determination," <i>J. Theor. Biol.</i> 135(3):303-307 (Dec. 1988).	
	C5	BARANY, F., "Genetic disease detection and DNA amplification using cloned thermostable ligase," <i>Proc. Natl. Acad. Sci. USA</i> 88(1):189-193 (Jan. 1991).	
	C6	BEATTIE, K., et al., "Advances in Genosensor Research," <i>Clin. Chem.</i> 41(5):700-706 (1995).	
	C7	BIGNOZZI, C., et al., "A simple poly(pyridine)ruthenium(II) photosensitizer: (2,2'-bipyridine)tetrcyanoruthenate(II)," <i>J. Am. Chem. Soc.</i> 108(24):7872-7873 (Nov. 1986).	
	C8	BJERRUM, M., et al., "Electron transfer in ruthenium-modified proteins," <i>J. Bioenerg. Biomembr.</i> 27(3):295-302 (Jun. 1995).	
	C9	BLONDER, R., et al., "Application of redox enzymes for probing the antigen-antibody association at the monolayer interfaces: development of amperometric immunosensor electrodes," <i>Anal. Chem.</i> 68(18):3151-3157 (Sep. 1996).	
	C10	CARLSSON, C., et al., "Screening for genetic mutations," <i>Nature</i> 380(6571):207 (Mar. 1996).	
	C11	CARTER, M., et al., "Electrochemical investigations of the interaction of metal chelates with DNA. 3. Electrogenerated chemiluminescent investigation of the interaction of tris(1,10-phenanthroline)ruthenium(II) with DNA," <i>Bioconjug. Chem.</i> 1(4):257-263 (Jul. - Aug. 1990).	
	C12	CARTER, P., et al., "Oxidation of DNA Hairpins by Oxoruthenium(IV): Effects of Sterics and Secondary Structure," <i>Inorg. Chem.</i> 35(11):3348-3354 (May. 1996).	
	C13	CARUANA, D. J., et al., "Enzyme-amplified amperometric detection of hybridization and of a single base pair mutation in an 18-base oligonucleotide on a 7-μm-diameter microelectrode," <i>J. Am. Chem. Soc.</i> 121(4):769-774 (Feb. 1999).	
	C14	CHAILAPAKUL, O., et al., "Interactions between organized, surface-confined monolayers and liquid-phase probe molecules. 4. synthesis and characterization of nanoporous molecular assemblies: mechanism of probe penetration," <i>Langmuir</i> 11(4):1329-1340 (Apr. 1995).	
	C15	CHENG, J., et al., "Selectivity and sensitivity of self-assembled thioclic acid electrodes," <i>Anal. Chem.</i> 64(17):1998-1999 (Sep. 1992).	
	C16	CHIEM, N., et al., "Microfluidic Systems for Clinical Diagnostics," <i>Transducers'97, Intl. Conf. Solid-State Sens. Actuators</i> , Chicago, IL (Jun. 16 - 19, 1997).	
	C17	CLARKE, P.R., et al., "Physical and chemical aspects of ultrasonic disruption of cells," <i>J. Acoustics Soc. Am.</i> 50 649-653 (1970).	
	C18	DAIZADEH, I., et al., "Effect of protein dynamics on biological electron transfer," <i>Proc. Natl. Acad. Sci. USA</i> 94(8):3703-3708 (Apr. 1997).	
	C19	DAUBENDIEK, S., et al., "Generation of catalytic RNAs by rolling transcription of synthetic DNA nanocircles," <i>Nat. Biotechnol.</i> 15(3):273-277 (Mar. 1997).	

Examiner Signature	<i>Heather Calamita</i>	Date Considered	11/08/2004
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	09/626,096
				Filing Date	July 26, 2000
				First Named Inventor	UMEK, Robert M.
				Art Unit	1637
				Examiner Name	Calamita, Heather
Sheet	5	of	10	Attorney Docket Number	A-68271-2/RMS/RMK/SPL (463037-00204)

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.*	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.				T*
Hol	C20	DELAMARCHE, E., et al., "Immobilization of antibodies on a photoactive self-assembled monolayer on gold," <i>Langmuir</i> 12(8):1997-2006 (Apr. 1996).				
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	C23	DONTHA, N., et al., "Generation of biotin/avidin/enzyme nanostructures with maskless photolithography," <i>Anal. Chem.</i> 69(14):2619-2625 (Jul. 1997).				
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	C27	DUCEY, M., et al., "Competitive nonseparation electrochemical enzyme binding/immunoassay (NEEA) for small molecule detection," <i>Anal. Chim. Acta</i> 357(1&2):5-12 (Dec. 1997).				
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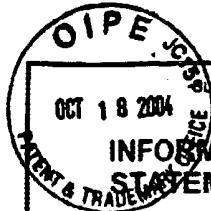
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NFC	C38	GOODWIN, D., et al., "Microwave Miniprep of Total Genomic DNA from Fungi, Plants, Protists and Animals for PCR," <i>BioTechniques</i> 15(3):437-441 (1993).	
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	C50	JONSSON, U., et al., "Biosensors based on surface concentration measuring devices – The concept of surface concentration," <i>Prog. Colloid Polym. Sci.</i> 70:96-100 (1985).	
	C51	KATZ, E., et al., "Application of stilbene-(4,4'-diisothiocyanate)-2,2'-disulfonic acid as a bifunctional reagent for the organization of organic materials and proteins onto electrode surfaces," <i>J. Electroanal. Chem.</i> 354(1&2):129-144 (1993).	
	C52	KATZ, E., et al., "Electrical contact of redox enzymes with electrodes: novel approaches for amperometric biosensors," <i>Bioelectrochem. Bioenerg.</i> 42(1):95-104 (1997).	
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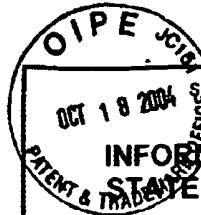
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Nic	C56	KOHNE, D., et al., "Room temperature method for increasing the rate of dna reassociation by many thousandfold: the phenol emulsion reassociation technique," <i>Biochemistry</i> 16(24):5329-5341 (Nov. 1977).	
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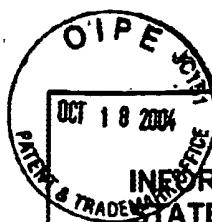
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NPC	C74	MISTLER, R.E., "Tape Casting: The Basic Process for Meeting the Needs of the Electronics Industry," <i>Ceramic Bull.</i> 69(6):1022-1026 (1990).	
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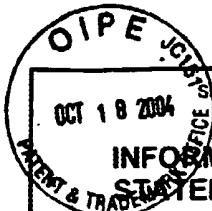
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				Attorney Docket Number	A-68271-2/RMS/RMK/SPL (463037-00204)

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Examiner Initials ¹	Cite No. ²	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			T ³
Noc	C92	SMITH, L., et al., "Mapping and Sequencing the Human Genome: How to Proceed," <i>Biotechnology</i> 5:933-942 (1987).			
	C93	SOUTEYRAND, E., et al., "Direct detection of the hybridization of synthetic homo-oligomer DNA sequences by field effect," <i>J. Phys. Chem. B.</i> 101(15):2980-2985 (Apr. 1997).			
	C94	STEINBERG, S., et al., "Ion-Selective Monolayer Membranes Based upon Self-Assembling Tetradeinate Ligand Monolayers on Gold Electrodes. 2. Effect of Applied Potential on Ion Binding," <i>J. Am. Chem. Soc.</i> 113(14):5176-5182 (Jul. 1991).			
	C95	STEINBERG, S., et al., "Ion-Selective Monolayer Membranes Based upon Self-Assembling Tetradeinate Ligand Monolayers on Gold Electrodes. 3. Application as Selective Ion Sensors," <i>Langmuir</i> 8(4):1183-1187 (Apr. 1992).			
	C96	STELZLE, M., et al., "On the Application of Supported Bilayers as Reception Layers for Biosensors with Electrical Detection," <i>J. Phys. Chem.</i> 97(12):2974-2981 (Mar. 1993).			
	C97	STORA, T., et al., "Metal ion trace detection by chelator-modified gold electrode: a comparison of surface to bulk affinity," <i>Langmuir</i> 13(20):5211-5214 (Oct. 1997).			
	C98	SUN, S., et al., "Preparation of active Langmuir-Blodgett films of glucose oxidase," <i>Langmuir</i> 7(4):727-737 (Apr. 1991).			
	C99	SYVÄNEN, A. C., "Detection of point mutations in human genes by the solid-phase minisequencing method," <i>Clin. Chim. Acta</i> 226(2):225-236 (May. 1994).			
	C100	TAKEDA, H., et al., "Preparation of 1-alkynyl 2-(trimethylsilyl)ethyl sulfides as thiolate anion precursors for self-assembled monolayers," <i>Tetrahedron Lett.</i> 39(22):3701-3704 (May. 1998).			
	C101	TERRETTAZ, S., et al., "Protein binding to supported lipid membranes: investigation of the cholera toxin-ganglioside interaction by simultaneous impedance spectroscopy and surface plasmon resonance," <i>Langmuir</i> 9(5):1361-1369 (May. 1993).			
	C102	TOMINAGA, M., et al., "Tuning of lipid bilayer fluidity regulates mediated electron transfer reactions of glucose oxidase immobilized on lipid bilayer films on an electrode," <i>Bioelectrochem. Bioenerg.</i> 42(1):59-62 (Apr. 1997).			
	C103	TOPFER, M. L., <i>Technology Thick-Film Microelectronics: Fabrication, Design, and Applications: Microelectronics Series</i> ; Litton Educational Publishing, Inc.: New York, NY, 3:41-59 (1971).			
	C104	TSUNEO, M., et al., "Coumarin-fluorescein pair as a new donor-acceptor set for fluorescence energy transfer study of DNA," <i>Tetrahedron Lett.</i> 41(15):2605-2608 (2000).			
	C105	WALKER, G.T., et al., "A Chemiluminescent DNA Probe Test Based on Strand Displacement Amplification," <i>Molecular Methods for Virus Detection</i> , ch. 15, pp. 329-349, Academic Press, Inc.: San Diego, CA (1995).			
	C106	WALLACE et al., "Electron Transfer of Yeast Cytochrome C Immobilized On Sam Modified Gold Electrodes", <i>Book of Abstracts, 214th ACS National Meeting</i> , Las Vegas, NV, PHYS-326 , American Chemical Society, Washington D. C. (September 7-11, 1997).			
	C107	WANG, J., et al., "DNA biosensor for the detection of hydrazines," <i>Anal. Chem.</i> 68(13):2251-2254 (Jul. 1996).			
	C108	WANG, J., et al., "Trace measurements of nucleic acids using flow injection amperometry," <i>Anal. Chim. Acta</i> 319(3):347-352 (Feb. 1996).			

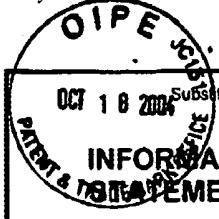
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Sheet 10 of 10				Attorney Docket Number A-88271-2/RMS/RMK/SPL (463037-00204)	
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	C109	WELCH, T., et al., "Distribution of Metal Complexes Bound to DNA Determined by Normal Pulse Voltammetry," <i>J. Phys. Chem.</i> 100(32):13829-13836 (Aug. 1996).			
	C110	WELCH, T., et al., "Electron-Rich Oxoruthenium(IV) Cleavage Agents: A Zero-Order Rate Law for DNA Catalysis," <i>Inorg. Chem.</i> 36(21):4812-4821 (Oct. 1997).			
	C111	WILDING, P., et al., "PCR in a Silicon Microstructure," <i>Clin. Chem.</i> 40(9):1815-1818 (Sep. 1994).			
	C112	WOOD, J.C., et al., "Time-Frequency Transforms: A New Approach to First Heart Sound Frequency Dynamics," <i>IEEE Transact. Biomed. Eng.</i> 39(7):730-740 (1992).			
	C113	YGUERABIDE, J., et al., "Quantitative Fluorescence Method for Continuous Measurement of DNA Hybridization Kinetics Using a Fluorescent Intercalator," <i>Anal. Biochem.</i> 228(2):208-220 (Jul. 1995).			

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